

PATENT

# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Continuation Application of SERGE WILLENEGGER ET AL	)	For: SUBCHAN	NEL CONTROL LOO
Serial No. UNKNOWN	)		
Filed: HEREWITH	)	Group Art Unit:	UNKNOWN

# INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR § 1.97

Assistant Commissioner of Patents Washington, D.C. 20231

Dear Sir:

Applicants through their attorney submit herewith, in accordance with 37 CFR §1.98, a list references of which they are aware, which they believe may be material to the examination of this application and with respect to which there may be a duty to disclose in accordance with 37 CFR § 1.56. These have been previously submitted in co-pending, isssued U.S. application serial no. 09/353,895 filed July 15, 1999 entitled Subchannel Control Loop and currently assigned to the assignee of the present application.



While the references identified herein may be material to the examination of this application pursuant to 37 CFR § 1.56, the citation of these references is not intended to constitute an admission that any reference referred to herein is prior art to the invention of this application unless specifically designated as such.

The filing of this document shall not be construed to mean that any search has been made or, that if made such search was complete or exhaustive, or that no other material information as defined in 37 CFR § 1.56 exists.

A list of the references cited herein is set forth on Form PTO-1449 which is enclosed herewith. In accordance with 37 CFR § 1.98(d) Applicants are not required to submit copies of the references and accordingly have not provided copies herewith. Applicants respectfully request that the Examiner return to Applicants the enclosed copy of the Form PTO-1449 indicating consideration of the references.

The subject application is believed patentable over any of the above-references.

Respectfully submitted,

By:

S. Hossain Beladi Attorney for Applicants Registration No. 42,311

QUALCOMM Incorporated 5775 Morehouse Drive San Diego, California 92121 Telephone: (858) 651-4470

Dated:

March 12, 2001

Facsimile: (858) 658-2502



INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use several sheets if necessary)



Sheet 1 f 5

FORM PTO-1449

U.S. DEPARTMENT OF

ATTY. DOCKET NO. COMMERCE

SERIAL NO.

(REV. 7-80)

PATENT AND TRADEMARK OFFICE

QCPA363DIVC1

UNKNOWN

**APPLICANT** 

SERGE WILLENGER ET AL

**FILING DATE** 

GROUP

DATE MAILED: HEREWITH

**HEREWITH UNKNOWN** 

#### **U.S. PATENT DOCUMENTS**

*EXAMINER INITIAL		ſ	ОС	UMI	ENT	NUI	мве	R	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPRO- PRIATE
	AA	5	2	9	9	2	2	9	3/29/94	Zscheile et al.	375	1	1/29/93
	AB	5	2	8	3	7	8	0	2/1/94	Schuchman et al.	370	50	10/18/90
	AC	5	2	6	3	0	5	0	11/16/93	Sutterlin et al.	375	1	9/9/92
	AD	5	2	5	8	9	8	3	11/2/93	Lane et al.	370	118	12/18/91
	AE	5	2	1	2	6	8	4	5/18/93	MacNamee et al.	370	24	8/30/90
	AF	5	1	3	6	5	8	6	8/4/92	Greenblatt	370	110.4	12/4/89
	AG	5	1	0	3	4	5	9	4/7/92	Gilhousen et al.	375	1	6/25/90
	AH	5	1	0	1	5	0	1	3/31/92	Gilhousen et al.	455	33	11/7/89
	ΑI	5	0	6	8	8	4	9	11/26/91	Tanaka	370	85.5	10/6/89
	AJ	5 0 5 6 1 0 9				0	9	10/8/91	Gilhousen et al.	375	1	11/7/89	
	AK						4	6	6/4/91	Morrow, Jr.	375	1	14/14/89

#### FOREIGN PATENT DOCUMENTS

*EXAMINER INITIAL		Г	OCI	UME	ENT	NUN	иве	R	DATE	COUNTRY	NAME	CLASS	SUB CLASS
	AL	0	4 4 4 5 9 2						2/26/91	EPO	Shinmiyo, Saburo	H04B	7/212
	AM	0	0 4 1 8 8 6 5					5	9/19/90	EPO	Onoe, Seizo	H04L	12/56
	AN	0	4	1	2	5	8	3	3/25/86	EPO	Goode et al.	H40B	1/56
	AO	2						8	10/17/86	UK	Zheng Feng Huang	H04J	3/16C
	AP	2	0 2 2 3 6 5					5	5/30/79	UK	Mehmet Esin Uslug	H04Q	3/06

### OTHER PRIOR ART (Including Author, Title, Date, Pertinent Page, Etc.)

	AR	*	Advanced Engineering Mathmatics, "Orthogonal Sets of Functions/Chapter 4",
			Erwin Kreyszig, pp. 186-190, John Wiley & Sons, Inc.
	AS		
	ΑT		
EVANDED			DATE CONCIDENTS

**EXAMINER** 

DATE CONSIDERED

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.





FORM PTO-1449

U.S. DEPARTMENT OF

COMMERCE

ATTY. DOCKET NO.

QCPA363DIVC1

SERIAL NO.

(REV. 7-80)

PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE

**UNKNOWN** 

STATEMENT BY APPLICANT (Use several sheets if necessary)

SERGE WILLENGER ET AL **FILING DATE** 

**APPLICANT** 

GROUP

DATE MAILED: HEREWITH

**HEREWITH** 

UNKNOWN

#### **U.S. PATENT DOCUMENTS**

*EXAMINER INITIAL		E	OCI	UME	ENT	NUN	ИВЕ	R	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPRO- PRIATE
	AA	5	1	5	9	6	0	8	10/29/92	Falconer et al.	375	1	8/29/91
	AB	5	1	5	7	6	7	2	10/20/92	Kondou et al.	371	43	3/14/90
	AC	5	0	0	3	5	3	3	3/26/91	Watanabe	370	85.5	7/25/89
	AD	4	9	3	9	7	4	5	7/3/90	Kirimoto et al.	375	1	8/28/89
	AE	4	9	3	3	9	5	2	6/12/90	Albrieux	375	1	4/4/89
	AF	4	9	0	1	3	0	7	2/13/90	Gilhousen et al.	370	18	10/17/86
	AG	4	8	7	2	2	0	0_	10/3/89	Jansen	380	34	4/15/88
	AH	4	8	1	3	0	4	0	3/14/89	Futato	370	111	10/31/86
	ΑI	4	7	6	5	7	5	3	8/23/88	Schmitdt	379	60	3/3/87
	AJ	4	7	3	0	3	4	0	3/8/88	Frazier, Jr.	375	1	10/31/80
	AK	4	6	8	8	0	3	5	8/18/87	Gray et al.	340	825.52	7/16/86

#### FOREIGN PATENT DOCUMENTS

*EXAMINER INITIAL		Ľ	OCI	UME	ENT	NUN	мве	R	DATE	COUNT	RY NAME	-		CLASS	SUB CLASS	
	AL	9	1	0	7	0	3	0	10/19/90	PCT	Nolan, Michael, P. et al.		H04J	3/06		
	AM	0	5	6	4	9	3	7	10/13/93	EPO	Roke Manor Research Lt	d.	H04B	7/26		
	AN	9	4	0	6	2	1	8	3/17/94	PCT		м	H04B	7/005		
	<u> </u>	$\vdash$	_	<u> </u>	_		ļ		ļ	ļ	Ericsson.	4		<u> </u>		
	AO	2	2	7	3	0	0	9	6/1/94	UK	Motorola GmbH.		H03G	3/20		

#### OTHER PRIOR ART (Including Author, Title, Date, Pertinent Page, Etc.)

AR	
AS	
AT	
EXAMINER	DATE CONSIDERED

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.





U.S. DEPARTMENT OF COMMERCE FORM PTO-1449 ATTY. DOCKET NO. SERIAL NO. (REV. 7-80) PATENT AND TRADEMARK OFFICE QCPA363DIVC1 **UNKNOWN** INFORMATION DISCLOSURE STATEMENT BY APPLICANT APPLICANT (Use several sheets if necessary) SERGE WILLENGER ET AL FILING DATE GROUP DATE MAILED: HEREWITH **HEREWITH UNKNOWN** 

#### **U.S. PATENT DOCUMENTS**

*EXAMINER INITIAL		Г	юс	UMI	ENT	NUI	мве	R	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPRO- PRIATE
	AA	4	6	7	2	6	5	8	6/9/87	Kaverad et al.	379	63	10/23/86
	AB	4	6	4	1_	3	2	2	2/3/87	Hasegawa	375	1	10/18/84
	AC	4	6	3	5	2	2	1	1/6/87	Kerr	364	821	1/18/85
	AD	4	5	8	0	2	6	2	4/1/86	Naylor et al.	371	5	12/1/83
	AE	4	4	9	5	6	4	8	1/22/85	Giger	455	73	12/27/82
	AF	4	4	7	2	8	1	5	9/18/84	Gutleber	375	34	9/27/82
	AG	4	4	6	0	9	9	2	7/14/84	Gutleber	370	19	11/4/82
	AH	4	3	0	1	5	3	0	11/17/81	Gutleber	370	18	12/18/78
	ΑI	4	2	9	1	4	0	9	9/22/81	Weinberg et al.	375	1	7/18/78
	AJ	4	2	2	5	9	7	6	9/30/80	Osborne et al.	455	226	2/28/78
	AK	4	2	2	2	1	1	5	9/9/80	Cooper at al.	375	1	3/13/78

#### FOREIGN PATENT DOCUMENTS

*EXAMINER INITIAL		D	oct	JME	ENT	NUI	мве	R	DATE	COUNTRY	NAME	CLASS	SUB CLASS
	AL												
	AM												
	AN					ļ	_	ļ					
	AO				_	_							
	AP												

### OTHER PRIOR ART (Including Author, Title, Date, Pertinent Page, Etc.)

AR	
AS	
AT	
EXAMINER	DATE CONSIDERED
*CYAMDICD L'ELEC	thether or not citation is in conformance with MPEP 600. Draw line through citation if not in

conformance and not considered. Include copy of this form with next communication to applicant.





FORM PTO-1449

U.S. DEPARTMENT OF

COMMERCE

SERIAL NO.

(REV. 7-80)

PATENT AND TRADEMARK OFFICE

QCPA363DIVC1

ATTY. DOCKET NO.

UNKNOWN

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use several sheets if necessary)

SERGE WILLENGER ET AL FILING DATE

**APPLICANT** 

GROUP

DATE MAILED: HEREWITH

**HEREWITH** 

UNKNOWN

#### **U.S. PATENT DOCUMENTS**

*EXAMINER INITIAL		Γ	ЮС	UME	ENT	NUI	мве	R	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPRO- PRIATE
	AA	4	1	2	3	7	1	8	10/31/78	Lampert et al.	325	474	9/27/71
	AB	4	1	1	2	2	5	7	9/5/78	Frost	179	2EB	3/24/77
	AC	4	0	5	2	5	6	5	10/4/77	Denmer Dix Baxter et al.	179	1.5 S	5/28/75
	AD	3	7	1	5	5	0	8	2/6/73	Blasbalg	179	15BC	9/15/67
	AE	3	3	1	0	6	3	1	3/21/67	Brown	179	15	6/3/63
	AF	5	1	2	8	9	6	5	07/07/92	Henriksson	455	69	
	AG	5	3	9	0	3	3	8	2/14/95	Bodin et al.	455	69	
	АН	5	3	0	5	4	6	8	4/19/94	Bruckert et al.	455	69	
	ΑI	5	4	6	5	3	9	9	11/7/95	Oberholtzer et al.	455	69	
	AJ	5	2	2	0	6	7	8	6/15/93	Feei	455	69	
	AK	5	4	8	7	1	8	0	1/23/96	Ohtake	455	69	

#### FOREIGN PATENT DOCUMENTS

*EXAMINER INITIAL		D	oct	JME	NT	NUN	иве	R	DAT	Έ	COUNT	RY	NAME	 CLASS	SUB CLASS
	AL														
	AM													 	
	AN												 	 	
	AO				<b></b>								 		
	AP														·

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Page, Etc.)

AR	
AS	
AT	
EXAMINER	DATE CONSIDERED

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.





FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE (REV. 7-80)

PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT (Use several sheets if necessary)

ATTY. DOCKET NO.

SERIAL NO.

QCPA363DIVC1

UNKNOWN

APPLICANT

SERGE WILLENGER ET AL

FILING DATE

GROUP

DATE MAILED: HEREWITH

HEREWITH UNKNOWN

#### U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPRO- PRIATE
	AA	5	2	4	5	6	2	9	9/14/93	Hall			
	AB	5	2	6	7	2	6	2	11/30/93	Wheatley, III.			
	AC	5	3	8	3	2	1	9	1/17/95	Wheatley. III et al.			
	AD	5	2	0	4	8	7	6	4/20/93	Bruckert et al.			
	AE	5	0	2	9	3	3	1	7/2/91	Heichler et al.			
	AF	5	4	4	2	6	2	5	8/95	Gitlin et al.			
	AG	5	9	9	1	2	8	4	11/99	Willenegger et al			
	AH	5	7	1	0	9	8	2	1/98	Laborde et al			
	ΑI	5	5	7	9	3	7	3	11/96	Jang			
	AJ	5	5	7	0	3	5	3	10/96	Keskitalo et al			
	AK	6	0	1	8	5	4	4	1/00	Kotzin et al			
	AL	5	9	3	0	6	8	4	7/99	Keskitalo et al			

#### FOREIGN PATENT DOCUMENTS

*EXAMINER INITIAL	:	DOCUMENT NUMBER					иве	R	DATE	COUNTRY	NAME	CLASS	SUB CLASS
	AL	9	6	0	4	7	1	8	2/15/96	PCT	Qualcomm Inc.		
	AM	9	5	1	9	6	6	4	7/20/95	PCT	Nokia		
	AN	0	6	8	2	4	1	8	11/15/95	EPO	NTT Mobile Comm.		
	AO	2	3	0	0	5	4	6	11/6/96	UK	Samsung		
	AP												

#### OTHER PRIOR ART (Including Author, Title, Date, Pertinent Page, Etc.)

	AR						
	AS						
EXAMINER			DATE CONSIDERED				
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							